

Missouri S&T Nuclear Engineering Faculty Development Program (2011-2014)

Executive Summary:

Missouri University of Science & Technology (Missouri S&T) is pleased to submit this Faculty Development proposal for a new probationary Nuclear Engineering (NE) tenure-track faculty member to be hired in Fall 2011. Missouri S&T will provide a cash matching amount. In addition, the USNRC funding will be leveraged by a cash gift per year from Exelon Nuclear Corporation to support faculty development, and laboratory upgrade in NE. The USNRC faculty development grant will greatly help in preparing the new faculty member for obtaining tenure at Missouri S&T at the end of the six year probationary period. The grant will also help in the retention of the new faculty member by providing her/him with resources to build her/his research program, including graduate student support, laboratory equipment, travel to professional meetings, and to publish in refereed journals. Additionally, the research expertise of the new faculty member will strengthen the nuclear engineering program at Missouri S&T by reinforcing our current research area in radiochemistry/nuclear forensics or health physics. In summary, the USNRC faculty development grant will help attract, mentor and retain a new faculty member, and will increase our tenured/tenure-track faculty from 5 to 6, reducing our student/faculty ratio from 35 to 29.

Principal Investigator: Arvind Kumar, kumar@mst.edu